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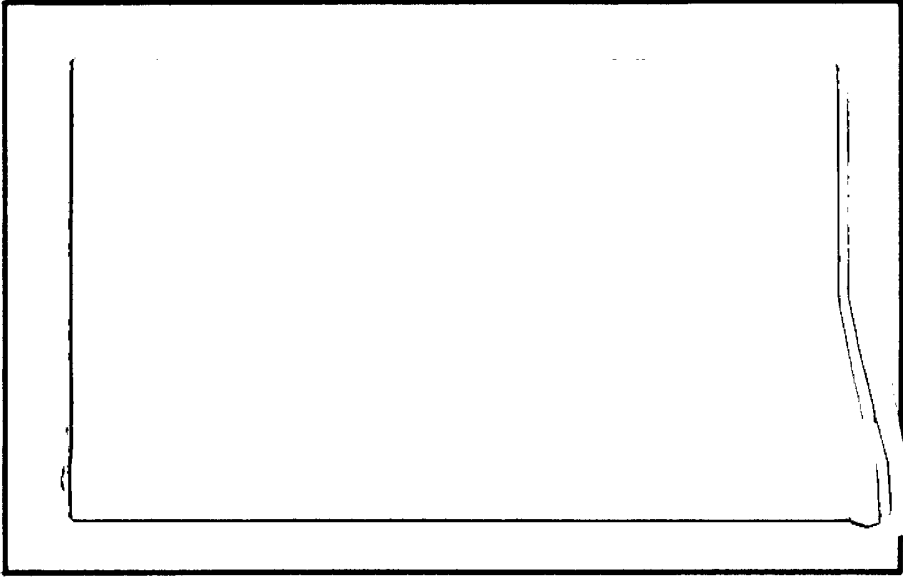
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SUMMARY LETTER REPORT

ON

WORK ORDER NO. 2,
TASK ORDER NO. 9

May 1, 1962

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August 16, 1962

Dear Sir:

This summary letter report describes the activity performed under Work Order No. 2, Task Order No. 9, during the period November 2, 1961, through May 1, 1962. The effort was divided into two parts. One part involved the preparation of two die sets to be used in forming the louvers in the Model 1 and Model 2 incinerator liners (as shown on Drawing No. 354-414 for the Model 1 incinerator). The second part was concerned with providing technical advisory services in connection with the fabrication of additional prototype mechanical paper grinders of the type developed under Task Order No. UU. The effort performed is outlined in the following.

Die-Set Preparation

During the past few years, several programs had been conducted for you that were directed toward the design and preparation of three different-sized incinerators for use in destroying burnable, security-classified material. These previous efforts had been concerned with various aspects of the units now designated as the Models 1, 2, and 3 Incinerators, including the design, preparation, and evaluation of experimental versions of the three units, the preparation of working drawings for Models 1 and 2, the provision of technical advisory assistance during the commercial fabrication and installation of prototype units of Models 1 and 2, etc.

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Each of the Models 1 and 2 units includes a stainless steel liner in which louvers are cut and bent by a die set; these permit air to be forced into the incinerators under controlled conditions so as to burn the paper charges rapidly and at the same time to keep the liner relatively cool. The current versions of these two units are equipped with liners prepared from 16-gage Type 310 stainless steel sheet. You had been interested in selectively utilizing a thicker Type 310 sheet for the liner, particularly of the Model 1 unit, in an attempt to provide an increased life for this component under particular service conditions.

In this connection, you had indicated a need for two die sets. One was to be identical with the die set previously designed and prepared by us for use on 16-gage Type 310 sheet as currently specified. The louvers punched with this die set were to be identical with those on the liners which have been provided previously in the Models 1 and 2 Incinerators. The other die set was to be used in punching louvers in 11-gage Type 310 sheet. The liners prepared using this die set were to be identical, respectively, with the present liners of the Models 1 and 2 units, except that the material was to be thicker.

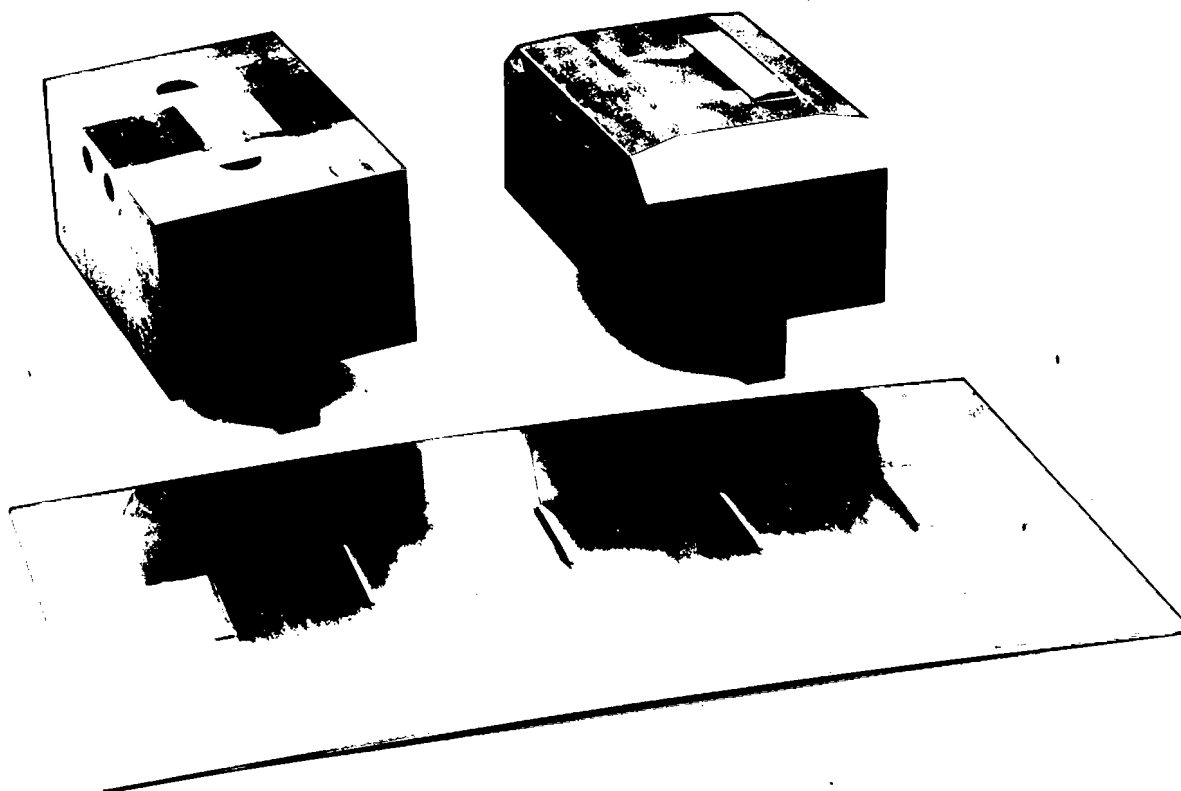
Figures 1 and 2 show the two die sets prepared and evaluated under this program; also included in each figure is a sample piece of sheet which was louvered with the corresponding die set. Several samples were punched during the fabrication of the die sets to be sure that the correct size and shape of louver openings would be obtained. Figure 2 shows a small crack in the 11-gage metal at each front corner of the louver openings. The cracks project away from the face of the opening, and were caused by the deep draw

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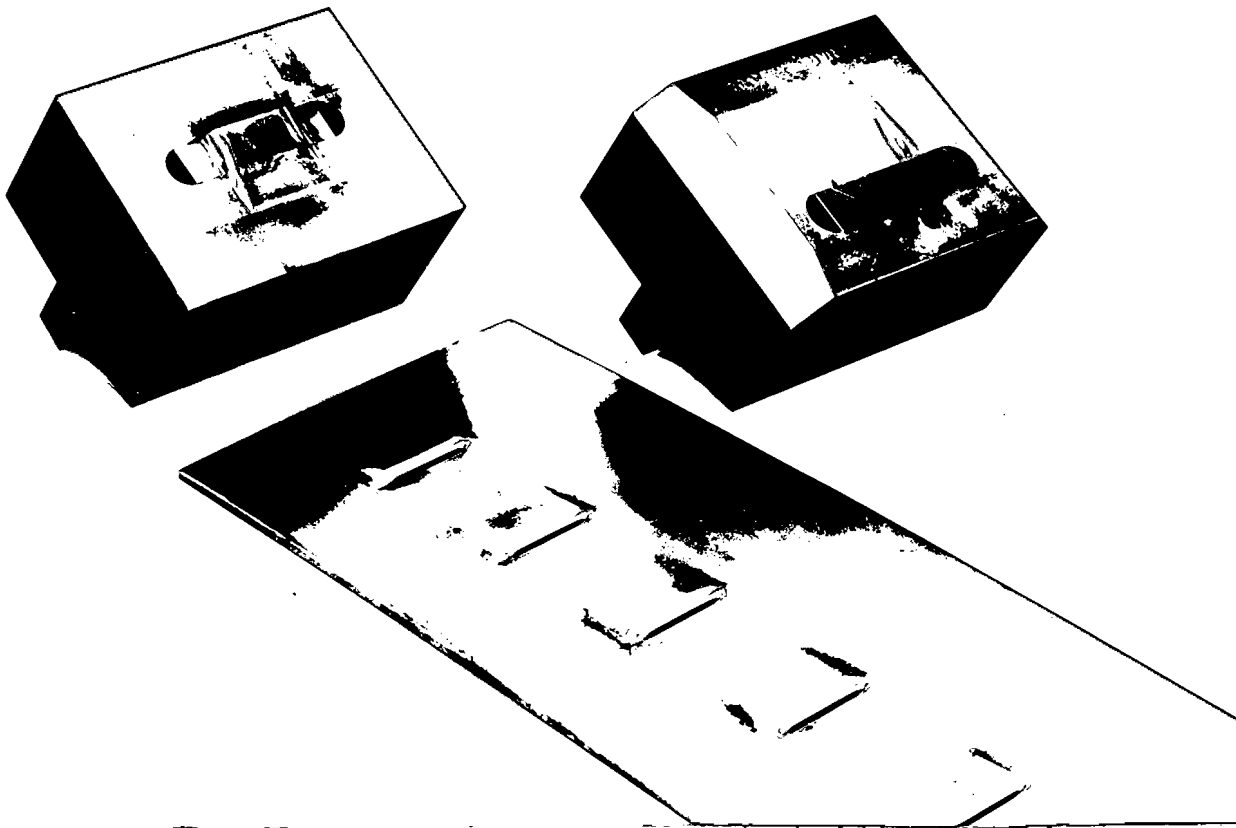
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Figure 1. Die Set for Forming Louvers in
16-Gage Stainless Steel Sheet
for Incinerator Liners

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**Figure 2. Die Set for Forming Louvers in
11-Gage Stainless Steel Sheet
for Incinerator Liners**

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and the sharp corner radii required to form the proper louver opening. Because they do not penetrate completely through the thickness of the metal, it is expected that these cracks would not propagate in service and would not hinder the proper operation of the unit. This corner cracking was not encountered in the 16-gage-sheet louvers.

On February 8, 1962, the two die sets were shipped to you. Subsequently, during the fabrication of liners, the die set for the 11-gage material was modified slightly by the commercial fabricator to facilitate the lowering operation at the bottom of the liners.

Technical Advisory Services

In connection with the prototype mechanical paper grinder which has been developed under Task Order No. UU, you had contemplated obtaining bids from commercial firms for the fabrication of additional prototype units. In order to facilitate the ultimate commercial fabrication of such units, you were interested in applying our experience and background stemming particularly from our previous efforts in the development of the prototype unit. Accordingly, we proposed that technical advisory services be supplied to a small number of fabricators, selected by the Sponsor, in connection with the commercial production of additional prototype units.

After coordination with you, two meetings were held with personnel from [redacted]

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[redacted] one with the Vice President, Engineering, and the other with the Vice President, Sales. At these meetings, the experimental units were demonstrated and some of the technical problems which might be encountered in the manufacture of additional prototype mechanical grinders were discussed in detail.

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In addition, supplemental work was done on the soundproofing of the experimental mechanical grinder. A discussion of this work is included appropriately in the "Second Summary Report on Task Order No. UU" dated November 8, 1961.

We would appreciate any comments which you or your associates might care to make in regard to the above-described effort.

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Sincerely,



In Triplicate

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